

# REQUEST FOR ACCESS TO AN APPLICATION UNDER 37 CFR 1.14(e)

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In re Application of <u>Koenck</u>	
Application Number <u>08 879 475</u>	Filed <u>6/20/97</u>
Art Unit	Examiner

Paper No. #38

Assistant Commissioner for Patents  
Washington, DC 20231

1. ☐ I hereby request access under 37 CFR 1.14(e)(2) to the application file record of the above-identified ABANDONED Application, which is not within the file jacket of a pending Continued Prosecution Application (CPA) (37 CFR 1.53(d)) and is: (CHECK ONE)

☒ (A) referred to in:

United States Patent Application Publication No. \_\_\_\_\_, page \_\_\_\_\_, line \_\_\_\_\_,

United States Patent Number 5986435, column \_\_\_\_\_, line \_\_\_\_\_, or

an International Application which was filed on or after November 29, 2000 and which

designates the United States, WIPO Pub. No. \_\_\_\_\_, page \_\_\_\_\_, line \_\_\_\_\_.

- ☐ (B) referred to in an application that is open to public inspection as set forth in 37 CFR 1.11(b) or

1.14(e)(2)(i), i.e., Application No. \_\_\_\_\_, paper No. \_\_\_\_\_, page \_\_\_\_\_, line \_\_\_\_\_.

2. ☐ I hereby request access under 37 CFR 1.14(e)(1) to an application in which the applicant has filed an authorization to lay open the complete application to the public.

Shari Hall White  
Signature

August 8, 2002  
Date

Shari Hall White  
Typed or printed name

FOR PTO USE ONLY	
Approved by:	<u>[Signature]</u> (initials)
Unit:	<u>File Information</u>



[11] Patent Number: 5,986,435

[45] **Date of Patent:** \*Nov. 16, 1999

- |           |        |                  |
|-----------|--------|------------------|
| 3,740,636 | 6/1973 | Hogrefe et al. . |
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- ## OTHER PUBLICATIONS

- Norand Corporation Specification Sheet for Norand 101-XL  
Portable Data System, 1978.

- ~~Norand Corporation Brochure regarding Norand "Sprint 100" Portable Order Entry Terminal, 1979.~~

- Norand Corporation Specification Sheet for Norand 101XL  
"Alpha-1" Portable Data System, 1980.

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Ltd.

### Related U.S. Application Data

- [63] Continuation-in-part of application No. 09/082,061, May 20, 1998, Pat. No. 5,889,386, which is a continuation of application No. 08/879,475; Jun. 20, 1997, which is a continuation of application No. 08/561,665, Nov. 22, 1995, abandoned, which is a continuation of application No. 08/134,881, Oct. 12, 1993, Pat. No. 5,508,599, which is a continuation of application No. 07/769,337, Oct. 1, 1991, Pat. No. 5,278,487, which is a continuation of application No. 07/544,230, Jun. 26, 1990, abandoned, which is a division of application No. 07/422,226, Oct. 16, 1989, Pat. No. 4,961,043, which is a division of application No. 07/168,352, Mar. 15, 1988, Pat. No. 4,885,523, which is a continuation-in-part of application No. 06/944,503, Dec. 18, 1986, Pat. No. 4,737,702, which is a continuation-in-part of application No. 06/876,194, Jun. 19, 1986, Pat. No. 4,709,202, which is a division of application No. 06/797,235, Nov. 12, 1985, Pat. No. 4,716,354, which is a continuation-in-part of application No. 06/612,588, May 21, 1994, Pat. No. 4,553,081, which is a continuation-in-part of application No. 06/385,830, Jun. 7, 1982, Pat. No. 4,455,523.

- [51] **Int. Cl.<sup>o</sup>** ..... H02J 7/00  
[52] **U.S. Cl.** ..... 320/136; 324/427  
[58] **Field of Search** ..... 320/136; 324/426,  
324/427

[56] **References Cited**

## U.S. PATENT DOCUMENTS

3,683,258 8/1972 Harbours.

[57] **ABSTRACT**

In an exemplary embodiment, a battery conditioning system monitors battery conditioning and includes a memory for storing data based thereon; for example, data may be stored representative of available battery capacity as measured during a deep discharge cycle. With a microprocessor monitoring battery operation of a portable unit, a measure of remaining battery capacity can be calculated and displayed. Where the microprocessor and battery conditioning system memory are permanently secured to the battery so as to receive operating power therefrom during storage and handling, the performance of a given battery in actual use can be accurately judged since the battery system can itself maintain a count of accumulated hours of use and other relevant parameters. In the case of a nonportable conditioning system, two-way communication may be established with a memory associated with the portable unit so that the portable unit can transmit to the conditioning system information concerning battery parameters (e.g. rated battery capacity) and/or battery usage (e.g. numbers of shallow discharge and recharge cycles), and after a conditioning operation, the conditioning system can transmit to the portable unit a measured value of battery capacity, for example.

